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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,269	02/13/2002	Hiroki Konaka	401571	6817
23548 7	590 05/10/2005		EXAMINER	
LEYDIG VOIT & MAYER, LTD 700 THIRTEENTH ST. NW			NELSON, AL	ECIA DIANE
SUITE 300				PAPER NUMBER
WASHINGTO	N, DC 20005-3960		2675	_

DATE MAILED: 05/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/073,269	KONAKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alecia D. Nelson	2675			
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) d d will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15	February 2005.				
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under	·				
Disposition of Claims					
4)⊠ Claim(s) 1-12 is/are pending in the application	on.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers	,				
9) ☐ The specification is objected to by the Examir	ner.				
10) The drawing(s) filed on is/are: a) □ ac)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.				
Applicant may not request that any objection to th	ne drawing(s) be held in abeyance. S	see 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the I	Examiner. Note the attached Office	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreig	an priority under 35 U.S.C. & 1196	(a)-(d) or (f).			
	a)⊠ All b)□ Some * c)□ None of:				
2. Certified copies of the priority docume		ation No			
3. Copies of the certified copies of the pri	• • • • • • • • • • • • • • • • • • • •				
application from the International Bure	•	Too in this stational stage			
* See the attached detailed Office action for a lis	, , , ,	ved.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summa				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 	Paper No(s)/Mail	Date I Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:	State (ppilodion (10-102)			

Application/Control Number: 10/073,269 Page 2

Art Unit: 2675

DETAILED ACTION

Drawings

1. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Application/Control Number: 10/073,269

Art Unit: 2675

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over SmartDraw in view of Apfelbaum et al. (U.S. Patent No. 6,853,963).

With reference to **claim 1**, SmartDraw discloses a user interface designing apparatus, comprising state set editing means for adding/deleting states of a composite display part in the teachings of the usage of state representations of the basic statechart diagram symbols and notations (see page 16); event handling editing means for describing an event handling for state transition in each of the states of said composite display part in the teachings of the usage of transition lines that represent the path between different states of an object (see page 17); elementary display part storing means for storing elementary display parts designed previously in the teachings of the usage of a library available to the user in a software design folder (see page 22); and state display editing means for adding/deleting elementary display parts to be displayed in each of the states of the composite display part in the teachings of the usage of the user having the ability to add symbols from the library to the composite display part (see page 22-43.

While teaching the usage of the states and transitions there fails to be teachings of a plurality of states, however it would be obvious to one having ordinary skill in the art that if there is taught the usage of transition lines that represent the bath between different states that there are more then one state present in the composite image.

Application/Control Number: 10/073,269

Art Unit: 2675

Moreover Apfelbaum et al. teaches a method of using a computer to generate and analyze an extended finite state machine model of a system wherein the state model includes a plurality of states (see Figures 2-6).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the usage of a plurality of states in a state model as taught by Apfelbaum et al. in a system which suggest the usage of a plurality of states as taught by SmartDraw for providing a user interface design system that allows for the necessary amount of states and transitions to be generated by the user for providing the user with a desirable interface for interacting with the system.

With reference to **claim 2**, While not specifically teaching that the library stores the composite display parts or that the state display editing means is arranged to add/delete designed composite display parts stored in the composite display storing means, there is taught as explained above with reference to **claim 1**, the usage of a library which stores frequently/common used symbols, wherein is further taught that the user is capable of editing what is retrieved from the library (see 22-43).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the device as taught by SmartDraw to have the ability to store composite display parts generated by the user wherein those stored composite display parts are available to the user for adding/deleting the stored composite display parts to other designed composite display parts, wherein it is taught that frequently/common used display parts are stored. By allowing generated display parts

Art Unit: 2675

to be stored, the user is not required to recreate the display part that could be used in future generated composite display parts. This thereby saves the user time when generating the display parts.

With reference to claims 3 and 4, SmartDraw teaches that the state display editing means and the event handling editing means are arranged to edit en bloc the display parts and event handlings which are displayed in teaching that the editing occurs to items displayed in the drawing area or page (see page 22).

While not specifically teaching that the state set editing means groups several states of the composite display part, it would be obvious that the states of the composite display part are grouped though the usage of the transitions. Further as explained above Apfelbaum et al. does teach a plurality of states being grouped for performing an interface for the user.

Therefore it would have been obvious to allow the states to be grouped for the reasons as explained above with reference to claim 1.

With reference to claims 5-7, SmartDraw teaches that the elementary display part stored in the elementary display part storing means having properties corresponding to size, position, external appearance and behavior (see pages 22-43), further comprising: property editing means for editing the properties of the elementary display part added to each state or the state group of the composite display part in teaching that the user is allowed to use what is already in the library or convert that

which is in the library to generate something new (see page 28). With further reference to claim 6, there is taught a composite display part property setting means adding/deleting the properties representative of behaviors of the composite display part and wherein the property editing means is arranged as to edit the properties of the composite display part added to each state of the composite display part (see page 25). With further reference to claim 7, it is further taught that the property editing means is arranged as to be capable of describing the properties of the elementary or composite display parts by referencing values of the properties of other elementary display parts or composite display parts (see page 31).

Page 6

With reference to claims 8 and 9, while teaching all that is required as explained above SmartDraw further teaches that the state display editing means is arranged as to display graphically disposition of the elementary or composite display parts in each state or state group of the composite display part while editing graphically properties and information concerning layout such as size or dimension, or inter-part relation through direct manipulation with an input device or by activating directly a corresponding one of the property editing means (see pages 32-44).

With reference to claims 10-12, Apfelbaum et al. teaches a simulation means (see process Fig 9) for simulating behavior of the composite display part stored in the composite display part storing means in conformance with manipulation input activated through an input device (see column 6, lines 40-63); a virtual display part storing means Art Unit: 2675

(table 224) for storing virtual display parts having functions easy to realize virtually by the simulation means (see column 6, lines 47-57); wherein the event handling editing means is arranged as to set virtually an event difficult to realize practically and edit an event handling for the event and the simulation means is arranged as to make the virtual event to be issued through the medium of an input/output device to thereby simulate the processing for the issued virtual event with a relevant composite display part (see column 6, line 64-column 7, line 29).

Therefore it would have been obvious to one having ordinary skill in the art to allow the usage of the visual representation of the display parts and it's functions to be provided to the user in the simulation of operation as explained above to be combined with the teachings of SmartDraw in order to provide an a programming product which allows for analyzing a state machine model of a system.

Response to Arguments

5. Applicant's arguments, filed 2/15/05, with respect to the rejection(s)of claim(s) 1-12 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

Application/Control Number: 10/073,269

Art Unit: 2675

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alecia D. Nelson whose telephone number is 571-272-7771. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

adn/ADN April 28, 2005 KENT CHANG PRIMARY EXAMINER Page 8